

IN THE CLAIMS:

The text of all pending claims, (including withdrawn claims) is set forth below. Cancelled and not entered claims are indicated with claim number and status only. The claims as listed below show added text with underlining and deleted text with ~~strike through~~. The status of each claim is indicated with one of (original), (currently amended), (cancelled), (withdrawn), (new), (previously presented), or (not entered).

Please AMEND claims 1-2, CANCEL claims 10-17 and 22-23, and ADD new claims 24-25 in accordance with the following:

1. (Currently Amended) A resin material remolding method comprising:
pulverizing a coated resin molded product;
peeling coating film from pulverized pieces obtained in said pulverizing by rubbing using a mechanical force ~~for a predetermined such that the pulverized pieces maintain a particle diameter of at least a predetermined size~~;
sensing and determining the presence/absence of adhesion of the coating film for each individual pulverized piece after the peeling;
separating a pulverized piece having the coating film adhered from pulverized pieces having no coating film adhered, on the basis of the determination result; and
performing molding by using the pulverized pieces having no coating film adhered after the separating,
wherein the sensing and determining senses and determines the presence/absence of adhesion of the coating film by sensing the coating film itself or a specific material present in the coating film by using a sensor, and
the peeling is performed within a predetermined time such that the pulverized pieces maintain a particle diameter of at least a predetermined size and the coating film removal ratio of the peeling does not reach one hundred percent.

2. (Currently Amended) A resin material remolding method comprising:
pulverizing a coated resin molded product;
peeling coating film from pulverized pieces obtained in said pulverizing by rubbing using a mechanical force ~~for a predetermined such that the pulverized pieces maintain a particle diameter of at least a predetermined size~~;

sensing and determining the presence/absence of adhesion of the coating film for each individual pulverized piece after the peeling;

separating a pulverized piece having the coating film adhered from pulverized pieces having no coating film adhered, on the basis of the determination result; and

performing molding by using the pulverized pieces having no coating film adhered after the separating,

wherein the sensing and determining senses and determines the presence/absence of adhesion of the coating film by sensing the coating film itself or a specific material present in the coating film by using a photosensor for sensing the coating film on the basis of a difference in lightness, saturation, or hue from a background color set behind the pulverized pieces and different from a coating film color,

the sensing and determining is executed for the pulverized pieces in a plurality of directions,

the sensing and determining executes the sensing in a specific position midway along a moving path in which the pulverized pieces are moved in a specific direction, ~~and~~

the separating executes the separation, when a pulverized piece having the coating film adhered is sensed in the sensing and determining, by blowing a gas against the pulverized piece to change a moving direction of the pulverized piece having the coating film adhered to a direction different from a moving direction of a pulverized piece having no coating film adhered, and

the peeling is performed within a predetermined time such that the pulverized pieces maintain a particle diameter of at least a predetermined size and the coating film removal ratio of the peeling does not reach one hundred percent.

3. (Previously Presented) The method according to claim 1, wherein the sensing and determining executes the sensing by using a photosensor for sensing the coating film on the basis of a difference in lightness, saturation, or hue from a background color set behind the pulverized pieces and different from a coating film color.

4. (Previously Presented) The method according to claim 1, wherein the sensing is executed by sensing means for irradiating the pulverized pieces with X-rays, and sensing X-rays having a specific wavelength excited from a specific material.

5. (Previously Presented) The method according to claim 1, wherein the sensing is executed for the pulverized pieces in a plurality of directions.

6. (Previously Presented) The method according to claim 1, wherein
the sensing and determining executes the sensing in a specific position midway along a moving path in which the pulverized pieces are moved in a specific direction, and
the separating executes the separation, when a pulverized piece having the coating film adhered is sensed in the sensing and determining, by blowing a gas against the pulverized piece to change a moving direction of the pulverized piece having the coating film adhered to a direction different from a moving direction of a pulverized piece having no coating film adhered.

7. (Original) The method according to claim 6, wherein the movement of the pulverized pieces is falling.

8. (Previously Presented) The method according to claim 1, wherein
in the pulverizing, the coated resin molded product is pulverized at random by using a cutting tool having a rotary blade, and
the sensing and determining is executed, after pulverized pieces are classified into a plurality of groups in accordance with particle diameters of the pulverized pieces, for each classified particle-diameter group.

9. (Original) The method according to claim 1, wherein the coated resin molded product is a used automobile part.

10-17. (Cancelled)

18. (Previously Presented) The method according to claim 2, wherein
in the pulverizing, the coated resin molded product is pulverized at random by using a cutting tool having a rotary blade, and
the sensing and determining is executed, after pulverized pieces are classified into a plurality of groups in accordance with particle diameters of the pulverized pieces, for each classified particle-diameter group.

19. (Previously Presented) The method according to claim 2, wherein the coated resin molded product is a used automobile part.

20-23. (Cancelled)

24. (New) The method according to claim 1, wherein the predetermined time is in a range of 15 to 50 minutes.

25 (New) The method according to claim 1, wherein the removal ratio is in a range of 98.90 to 99.58 percent.